

**S3 Table. *ALK* FISH-negative/fail and NGS-positive cases**

Patient ID	Sex	Age	Smoking status	<i>ALK</i> rearrangement	FISH-NGS samples	IHC/FISH method	IHC result	FISH result	Specimen types	
									IHC/FISH	NGS
B2	F	44	Never smoker	<i>EML4-ALK</i>	Resampling	D5F3/Vysis (O)	Positive (2+)	Negative (8/100)	Biopsy	Biopsy
B4	M	53	Ex-smoker	<i>EML4-ALK</i>	Identical	D5F3/Vysis (O)	Fail	Fail	Excision	Excision
B9	F	66	Never smoker	<i>EML4-ALK</i>	Resampling	D5F3/Vysis (O)	Positive (2+)	Negative (9/100)	Biopsy	Biopsy

*ALK*, anaplastic lymphoma kinase; FISH, fluorescence *in situ* hybridization; NGS, next-generation sequencing; IHC, immunohistochemistry; O, outside hospital.